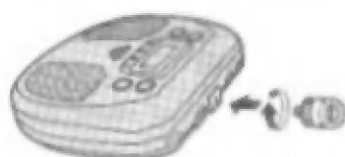
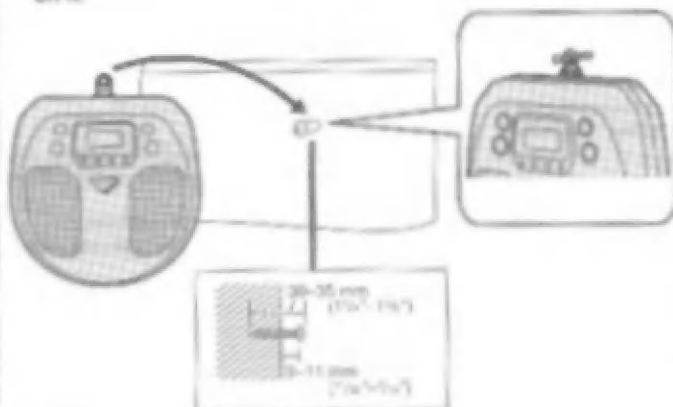


Hanging the unit on a wall

① Screw the included ring into the unit.



② Fasten a wood screw (or similar) to the wall and hang the unit on it.



Note

Screw the wood screws into a thick and hard part of the wall, leaving 9-11 mm (3/8-7/16") of the screw projecting from the wall surface. The wall or pillar should be capable of supporting a weight of 5 kg (11 lbs.).

Portable CD player

Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER SL-PH270

SERIAL NUMBER

Operating Instructions

Model No.
SL-PH270



Supplied Accessories

Check the packing carton for these accessories.

AC adapter (RFEA420C-S or RFEA421C-W) 1 pc.

Ring (RQ10708) 1 pc.

For U.S.A.

Stereo headphones (RFEV710P-KS) 1 pc.

For Canada

Stereo earphones (RFEV334P-KS) 1 pc.

Use numbers indicated in parentheses when asking for replacement parts.
(Only for U.S.A.) To order accessories contact 1-800-338-8382 or web site
(<http://www.panasonic.com>).

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.



Panasonic Consumer Electronics Company, Division of
Matsushita Electric Corporation of America
One Panasonic Way Secaucus, New Jersey 07094 <http://www.panasonic.com>
Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. ("PSC")
Ave. 60 de Independencia, Rm. 3-5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985
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1770 Ambler Drive, Mississauga, Ontario L4W 2T3 www.panasonic.ca
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Precautions

Before using this unit, be sure to read the applicable items of the operating instructions and these safety suggestions carefully. Afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

Safety

- Power Source**—The unit should be connected to power supply only of the type described in the operating instructions or as marked on the unit. Use only the AC adapter or car adapter described in the operating instructions when recharging.
- Polarization**—If the unit is equipped with a polarized AC power plug (a plug having one blade wider than the other), that plug will fit into the AC outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, consult your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- Care of AC adapter**—Take care that the cord of the AC adapter should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Never take hold of the AC adapter if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
- Noise Periods**—When not in use, be sure to disconnect the AC adapter from the AC power outlet.
- Batteries**—If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage. Do not mix batteries (old and new) or different types of batteries.

Installation

Environment

- Water and Moisture**—Do not use this unit near water—for example, near a bathtub, washbow, swimming pool, or the like. Damp basements should also be avoided.
- Condensation**—Moisture may form on the lens in the following conditions:
 - immediately after a heater has been turned on.
 - in a steamy or very humid room.
 - when the unit is suddenly moved from a cold environment to a warm one. If moisture forms inside the unit, it may not operate properly. To correct this problem, wait about one hour for the moisture to evaporate.
- Heat**—Never use or place this unit near a heat source. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.

Placement

- Foreign Material**—Care should be taken so that objects do not fall into and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.
- Magnetism**—The unit should be situated away from equipment or devices that generate strong magnetic fields.
- Stacking**—Do not place any objects, on top of the unit.
- Wall or Ceiling Mounting**—The unit should not be mounted to a wall or ceiling, unless specified in the operating instructions.

Maintenance

(See page 5 for details.)

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

Service

- Damage Requiring Service**—The unit should be serviced by qualified service personnel when:
 - The AC adapter is damaged, or
 - Objects have fallen or liquid has been spilled into the unit, or
 - The unit has been exposed to rain, or
 - The unit does not appear to operate normally or exhibits a marked change in performance, or
 - The unit has been dropped, or the enclosure damaged.
- Servicing**—The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to an authorized service personnel.
For the address of an authorized servicenter:
In the U.S.A., call 1-800-211-7262, e-mail consumerproducts@panasonic.com or visit www.panasonic.com
In Canada, call 800-624-5505 or visit www.panasonic.ca



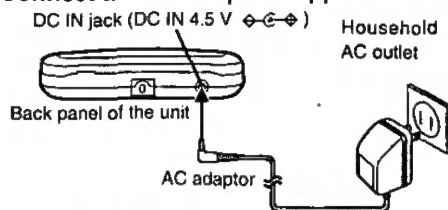
This manual was printed with soy based ink.

Power Supply Preparations

Refer to the specifications (page 8) for information on operating times when using rechargeable batteries or dry-cell batteries.

Using the AC adaptor

Connect the AC adaptor supplied.



Conserving power

The AC adaptor consumes 2.0 W when the unit is turned off with [■,OPR OFF]. To save power when the unit is not to be used for a long time, unplug the AC adaptor from the household AC outlet. Reprogram tracks if necessary before use.

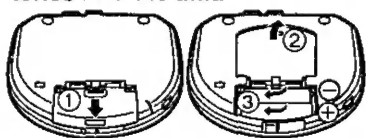
Using rechargeable batteries (not included)

Obtain the optional rechargeable batteries. Make sure to recharge the batteries before using them. The unit cannot be used to charge rechargeable batteries other than those specially designed for it.

•Optional batteries (P-3GAVA/2B)

Recharging procedure

1 Insert the special rechargeable batteries into the unit.



2 Connect the AC adaptor.

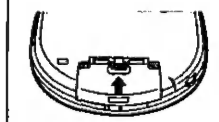
(Refer to "Using the AC adaptor" for connection instructions.) Recharging starts and the "CD" charging indicator flashes on and off on the unit's display. When the rechargeable batteries fully recharge the charging indicator disappears.

3 When recharging is complete, unplug the AC adaptor from the household AC outlet and the DC IN jack.

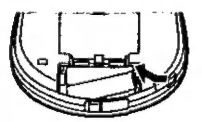
Note

- Rechargeable batteries have a service life of approximately 300 charge-discharge cycles. If the operating time on one full charge becomes noticeably shorter than it used to be, the battery has reached the end of its service life and should be replaced.
- Recharging may only be performed when the unit is off. (It is not possible to recharge the batteries while playing a CD.)
- The AC adaptor and rechargeable batteries may become warm while recharging is in progress. This is not a malfunction.

If the battery lid comes loose
Slide the lid back into place horizontally.



Removing batteries
Push up on the battery in the direction indicated by the arrow. Then lift it out.



Using the car adaptor (not included)

Be sure to obtain the car adaptor (SH-CDC9), available as an optional accessory. The car adaptor can be used to recharge the unit's batteries while in the car.

CAUTION:

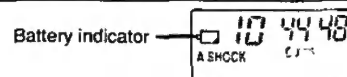
Use only car adaptor, Model: SH-CDC9 manufactured by Matsushita Electric Industrial Co., Ltd.

Using dry-cell batteries (not included)

After disconnecting the AC adaptor, insert two "AA" (LR6) alkaline batteries.

The procedure for inserting and removing dry-cell batteries is identical to that for rechargeable batteries.

Battery indicator



This indicator flashes on and off when the batteries are almost out of power. Power is cut off completely a short while later.

Rechargeable batteries: Recharge batteries.

Dry-cell batteries: Replace batteries with new ones.

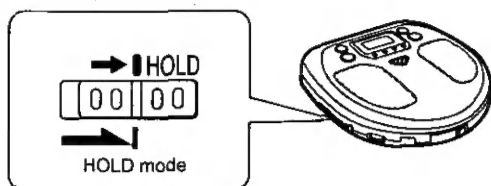
Note

- The length of time the unit will continue to operate between when the battery indicator starts flashing and when the power is cut off depends on the type of batteries used.
- Sound from the speakers may be distorted when the batteries start to run down. Recharge or replace the batteries.
- The battery indicator may not flash if rechargeable batteries other than those designated by Panasonic are used.

If the unit malfunctions or freezes during use, disconnect the power source (the AC adaptor or batteries).

Re-connect the power source and continue operation.

HOLD Function



This function causes the unit to ignore short, accidental button presses. (The disc lid can still be opened and closed.)

The HOLD function prevents the following:

- Powering on the unit accidentally (which can cause the batteries to run down).
- Play being cut off unexpectedly in the middle of a selection.

To use the HOLD function

Set [HOLD] to the HOLD position.

"hold" indication

When the unit is in HOLD status, pressing any button causes the indication "hold" to appear on the display.

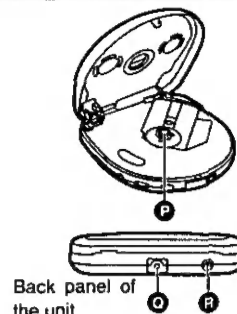
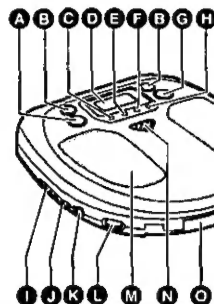
When the unit is powered off

"hold" appears only when [▶II] is pressed.

Before operating the buttons

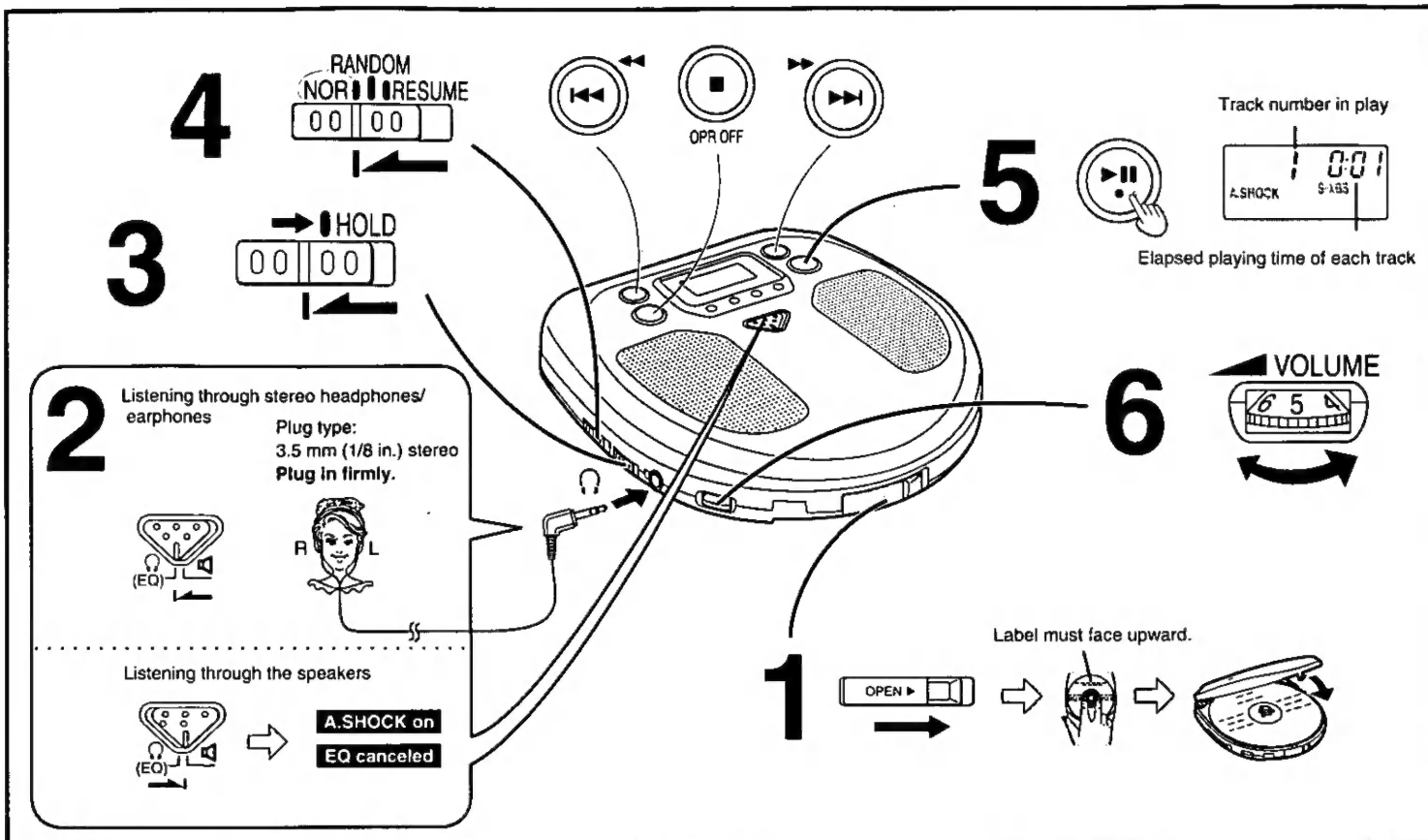
Be sure to move [HOLD] to release the unit from the HOLD mode.

Location of Controls



- A Stop/operation off button (■,OPR OFF)
- B Skip/search buttons (◀, ▶, ◀◀, ▶▶)
- C Anti-shock button (A.SHOCK)
- D Display
- E EQ button (EQ)
- F Memory/recall button (MEMORY/RECALL)
- G Play/pause button (▶II)
- H Repeat button (↺)
- I Play mode selector (NOR, RANDOM, RESUME)

- J Hold switch (HOLD)
- K Headphone jack (◑)
- L Headphone volume control (VOLUME)
- M Speakers
- N Speaker/headphone switch (◑(EQ)/◑)
- O Open switch (OPEN)
- P CD release button (PUSH)
- Q Hole for car mounting base/hole for ring
- R DC IN jack (DC IN 4.5 V ◑◑◑)



Follow steps 1–6.

- Play stops automatically when all the tracks have been played.
- If you connected the unit to a car audio system, set the volume on this unit to between 4 and 6, then adjust the volume on the system.

**When the speakers are turned on: Anti-shock turns on automatically
EQ is automatically canceled**
(The settings do not change when the headphones are turned on.)

Operation	Button	Display/reference
To pause play	Press during play. 	Press again to restart play.
To stop play Stop mode	Press during play. OPR OFF	Total number of tracks Total playing time
To turn off the unit Off mode	Press during stop mode. OPR OFF	
Skipping tracks	Press during play. (Backward) (Forward)	<ul style="list-style-type: none"> • During program play (page 4), these buttons are used to skip forward or back through the programmed sequence of tracks. • During random play (page 4), the skip buttons cannot be used to skip back to tracks that were played previously in the random sequence. • During program play, random play or 1 track repeat play (page 4), search operation is limited to the current track only.
Searching through tracks	 Press and hold during play.	

For your reference:

"no disc" indication

This indication appears for about 30 seconds if [▶||] is pressed when no disc is loaded in the unit or if the disc is not properly secured.

"OPEN" indication

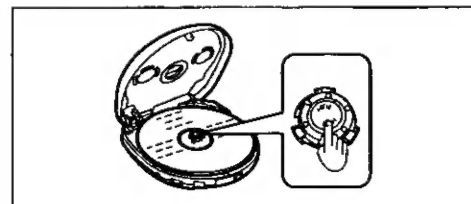
This indication appears for about 10 minutes when the cover is opened. (However, the indication does not appear when the unit is powered off.)

Note

- Never insert foreign objects into the unit body.

Removing discs

- 1 Press [■, OPR OFF] to stop play and disc rotation.
 - 2 Slide [OPEN] to open the lid.
 - 3 Press [PUSH] to release the disc.
- Do not stop the disc by hand or try to remove it before it stops rotating. This can damage CDs.



Auto power off function

If the unit is left in stop or paused status for approximately 10 minutes, the unit powers itself off automatically in order to prevent the battery from running down.

(If no disc is loaded in the unit, it powers itself off in about 30 seconds.)

Other Play Methods

The letters such as **A** in the various illustrations refer to the descriptions in the "Location of Controls" section (see page 2).

Skip play

The disc plays from the specified track, through to the end, then play stops automatically.

Preparation: Put unit in stop mode.

1



2 Select the desired track.



3



Program play

Up to 24 tracks can be entered in the programmed sequence.

Preparation: Put unit in stop mode.

1

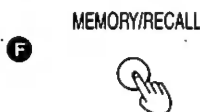


2 Select the desired track.



3 Register in sequence.

(The indication "M" and the programmed sequence appear on the display.)



4 Repeat steps 2 and 3 to program all the desired tracks.

5



■ To program the same track in the sequence more than once

Press [MEMORY/RECALL] the desired number of times.

■ If "F" is displayed

No more tracks can be programmed.

■ To confirm the contents of the program

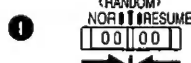
Press [MEMORY/RECALL] while the disc is playing. (The number of the programmed tracks appear on the display in sequence.)

■ To delete the entire programmed sequence

Press [M], [OPR OFF].

Random play

1



2



Release



For your reference:

- It is also possible to press [▶▶] while the unit is in stop mode to change the first track to be played. (All tracks are played eventually, regardless of which is played first.)
- Program play is not possible in the random mode.

Resume play

This function allows you to listen from the beginning of the track where play stopped because the unit was powered off (or switched to stop status). It is useful when listening to CDs in the car, etc.



Release

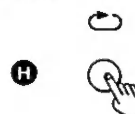


For your reference:

- If [NOR, RANDOM, RESUME] is put in the [RESUME] position, the all-track repeat function will be activated automatically as soon as the unit is powered on.
- If power is cut off near the end of a track (off mode), playback may resume from the beginning of the next track.
- If the unit is powered off while a disc was playing and then a new disc is inserted, play will begin from the middle of the new disc because the unit remembers the position where play stopped on the previous disc.

Repeat function

Press during play or stop mode.



The setting is switched in the sequence indicated below each time [H] is pressed.

1-track repeat (1 H)

One track is repeated.

All-track repeat (ALL H)

All the tracks on the disc are repeated.

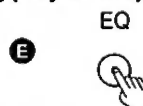
Cancel (no indicator is shown)

For your reference:

If "ALL H" is selected during program play, only the tracks in the program are repeated. (The indication "ALL" is not displayed.)

Changing the sound quality

Press during play or stop mode.



The setting switches in the sequence indicated below each time [EQ] is pressed.

S-XBS → TRAIN → Cancel (no indicator is shown)

S-XBS:

Select this setting to boost the low-range response.

TRAIN:

Select this setting to avoid annoying other passengers with noise from your headphones/earphones while riding on the train, or to reduce fatigue when listening for a long period of time.

The sound quality is automatically canceled when the speakers are on and cannot be changed. The setting does not change when the headphones are turned on ([EQ(EQ)] set to [EQ(EQ)]).

Anti-Shock Function

The letters such as **A** in the various illustrations refer to the descriptions in the "Location of Controls" section (see page 2).

The anti-shock function works by reading audio data and storing it in memory (up to 40 seconds worth). The unit then fills in interruptions caused by bumps and vibrations with data from the memory. This unit also incorporates a powerful anti-shock mechanism that prevents skipping caused when play speed is changed by swinging of the unit.

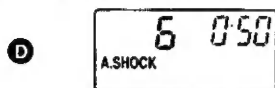
This function turns on automatically when the speakers are turned on and cannot be turned off. The setting does not change when the headphones are turned on ([EQ] / [EQ]) set to [EQ].

Press during play or stop mode.

A.SHOCK

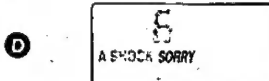


The following indicator appears on the display.



When bumps continue repeatedly

The message "SORRY" appears on the display and sound is interrupted.



To cancel the anti-shock function

Press [A.SHOCK] again.

Note

- The anti-shock setting can be changed during play, but this may cause a slight interruption in the sound because the disc's rotation speed changes.
- During anti-shock operation, the disc rotates at a higher rate than usual to collect extra audio data. This could result in a slight increase in disc rotation noise.

Listening to sound with the unit connected to an audio system

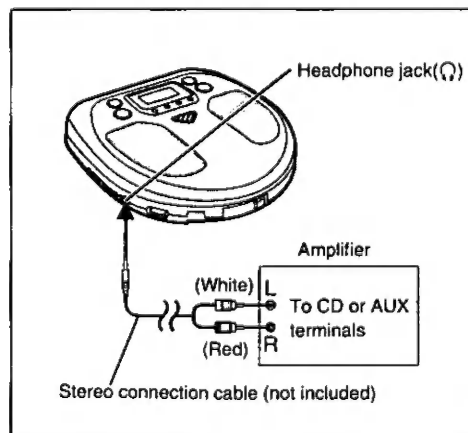
The anti-shock function uses digital signal compression technology. It is recommended that the anti-shock function be canceled if the unit is connected to a home audio system.

Using the Unit with Optional Accessories

Using the unit with an audio system

Using stereo connection cable (not included), you can hear CDs on your audio system.

- Turn the headphones on. (Set [EQ] to [EQ].)
- Connect the cable to the amplifier after turning off its power.
- Do not connect the cable to the PHONO jacks on the amplifier.
- Obtain the optional connecting cable if the amplifier comes with mini-phone jacks.
- Adjust the volume on the amplifier.
- Keep the unit's VOLUME control at a setting between 4 and 6.



Using the unit with a car audio system

Items to be purchased

For connection to the car audio system
Car stereo cassette adaptor (SH-CDM10A)

Connect the car stereo cassette adaptor to the unit's headphone jack.
(When doing this, keep the unit's VOLUME control at a setting between 4 and 6.)

For securing the unit and connecting the power supply:

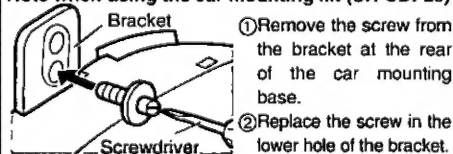
- Car adaptor (SH-CDC9)
- Car mounting kit (SH-CDF20)

Note

It may not be possible to use the unit with some types of car stereos owing to restrictions imposed by the construction of the car stereo cassette adaptor.

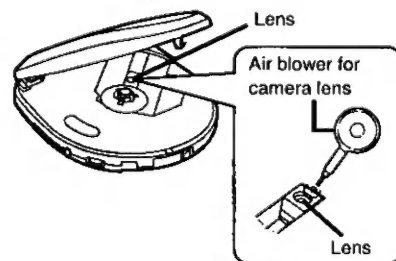
For further details, refer to the instructions of the part concerned.

Note when using the car mounting kit (SH-CDF20)



Maintaining the Lens

Open the lid and clean the lens as shown in the figure. Use a cotton swab to gently wipe off any finger-prints. Recommended product: Lens cleaner kit (SZZP1038C)



ONLY FOR U.S.A.

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.

**Web Site: <http://www.panasonic.com>
You can purchase parts, accessories or locate your nearest servicer by visiting our Web Site.**

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

**Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(6 am to 5 pm Monday-Friday; 6 am to 10:30 am Saturday; PST)
(Visa, MasterCard, Discover Card, American Express, Check)**

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6550 Katella Avenue
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800 Dubuque Avenue
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CA 94080

20201 Sherman Way
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Canoga Park, CA 91306

3878 Ruffin Road
Suite A
San Diego, CA 92123

COLORADO

1640 South Abilene Street
Suite D
Aurora, CO 80012

FLORIDA

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Suite 102
Hollywood, FL 33020

GEORGIA

8655 Roswell Road
Suite 100
Atlanta, GA 30350

ILLINOIS

9060 Golf Road
Niles, IL 60714

1703 North Randall Road
Elgin, IL 60123
(Pick-up/Drop-off only)

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Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive
Suite G
Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue
Sterling Heights, MI 48312

MINNESOTA

7850-12th Avenue South
Airport Business Center
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OHIO

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Civic Center Plaza
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TENNESSEE

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TEXAS

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Service in Puerto Rico

**Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicer:
Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787) 750-4300 Fax (787) 768-2910**

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way,
Secaucus, New Jersey 07094

**Panasonic Audio Products
Limited Warranty**

Panasonic Sales Company, Division of Matsushita Electric Corporation of Puerto Rico, Inc.
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will repair this product with new or refurbished parts in the event of a defect in materials or workmanship, free of charge, in the U.S.A. or Puerto Rico as follows (all time periods start from the date of original purchase):

COMPACT DISC PLAYERS, RADIOS, VIDEO CD PLAYERS, RADIO CASSETTE PLAYERS/RECORDERS (with and without CD Players), **CASSETTE RECORDERS, MICROCASSETTE RECORDERS/TRANSCRIBERS AND IC RECORDERS**—labor and parts for one (1) year.

ACCESSORIES—HEADPHONES, CARTRIDGES, MICROPHONES, ADAPTERS—labor and parts for ninety (90) days.

BATTERIES—(when applicable)—New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

RECHARGEABLE BATTERY PACKS—(when applicable)—New rechargeable battery packs in exchange for defective rechargeable battery packs for ninety (90) days. Non-rechargeable battery packs are not warranted.

Carry-in or mail-in service in the U.S.A. can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call toll free, 1-800-211-7262 to locate a PASC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship

which occur during normal use and does not cover normal wear to the stylus (when applicable) or a dealer installed cartridge or stylus. The warranty does not cover damages which occur in shipment or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set-up adjustments, maladjustment of consumer controls, improper operation or maintenance, improper antenna, inadequate signal reception or pick-up, alteration, modification, power line surge, improper voltage supply, lightning damage, commercial use, such as; hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Panasonic Consumer Call Center at the company address above or call toll free 1-800-211-7262.

Product Service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only.


Product information

For product service, product information or assistance with product operation, refer to the servicenter directory.

User memo:

DATE OF PURCHASE _____
DEALER NAME _____
DEALER ADDRESS _____
TELEPHONE NUMBER _____

Concerning Compact Discs

 Only compact discs bearing this mark can be used with this unit. However, continued use of irregular shaped CDs can damage the unit.



How to remove a disc from its case

How to store the disc in its case

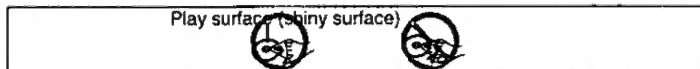


How to hold a disc



If the surface is dirty

Wipe it with a damp cloth and then wipe dry. Wipe from the center toward the outer circumference.



Handling precautions

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)

- Do not use scratch-proof protectors or covers other than those specified for use with this system.

Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping. Do not place or store CDs in the following places.

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance
- In the glove compartment or on the rear deck of an automobile

The product you have purchased is powered by a nickel-cadmium battery which is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.



CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.:

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-affixed letter, detailing the complaint, to the outside of the carton.

Do NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.

Customer's Record

Model No. _____

Dealer's Name _____

Serial No. _____
or _____

Code No. _____

Dealer's Address _____

Date of Purchase _____

Specifications

Audio (Anti-shock off)

No. of channels: 2 (left and right, stereo)
 DA converter: 1 bit, MASH
 Headphone output level: Max. 9 mW+9 mW/16 Ω (adjustable)
 Speaker output level: RMS Max. 90 mW+90 mW
 Pickup
 Light source: Semiconductor laser
 Wavelength: 780 nm
 General
 Operational temperature range: 0 °C–40 °C (32 °F–104 °F)
 Rechargeable temperature range: 5 °C–40 °C (41 °F–104 °F)
 Power supply: DC 4.5 V
 Power consumption:

Play time:

[Approximate operating time in hours (in hold mode, with EQ canceled, at 25 °C (77 °F), on a flat, stable surface).]

Batteries used	Speaker off Anti-shock off/on	Speaker on Anti-shock on
2 alkaline batteries	18 / 24	20
Optional rechargeable batteries (P-3GAVA/2B)	11 / 13	10

The play time may be less depending on the operating conditions.

Recharging time: About 8 hours

Dimensions

(W×H×D): 128×31.6×131.5 mm (5 $\frac{1}{8}$ "×1 $\frac{1}{4}$ "×5 $\frac{3}{8}$ ")

Mass:

286 g (10.1 oz.)

(with batteries)

240 g (8.5 oz.)

(without batteries)

Power consumption in standby mode : 2.0 W

Note:

Specifications are subject to change without notice.

Mass and dimensions are approximate.

Power source	Speaker off Anti-shock off/on	Speaker on Anti-shock on
AC adaptor	2.4W/2.6W	2.8 W

When recharging: Approx. 3.2 W

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

For detailed instructions, contact an authorized servicenter in the U.S.A. and Panasonic Canada Inc. Customer Care Centre in Canada.

In the U.S.A., call 1-800-211-7262, e-mail consumerproducts@panasonic.com, or visit www.panasonic.com

In Canada, call 905-624-5505 or visit www.panasonic.ca

Problem	Check this
Cannot close the cover.	Is the disc properly secured in place?
Cannot play discs.	<ul style="list-style-type: none"> Is the unit in HOLD status? Is the disc properly secured in place? Is there condensation on the lens? (Wait for about an hour and then try again.)
Cannot remove disc.	Did you press [PUSH] to release the disc?
Tracks on disc do not play in order, starting with the first track.	Is [NOR, RANDOM, RESUME] in the [NOR] position?
Cannot hear music—too noisy.	<ul style="list-style-type: none"> Is the headphone/earphone plug inserted all the way? Is the plug dirty? (Wipe away dirt on plug.) Separate the unit from mobile phones.
TV picture is distorted. Radio reception is noisy.	Are you using the unit body too near a TV or tuner? (If the TV or tuner is connected to a simple indoor antenna, connect it to an outdoor antenna.)
No sound from the headphones/earphones.	Turn the headphones on. (Set [Q(EQ)] to [Q(EQ)].)

Cautions

Listening caution



Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

If you experience a ringing in your ears, reduce volume or discontinue use.

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Selection and care of rechargeable /dry cell batteries

Selection

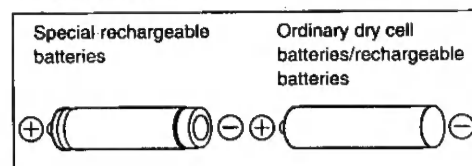
As a safety precaution, the portable CD players made by Panasonic are constructed so it is impossible to recharge ordinary batteries.

Only batteries especially designed for this unit can be recharged.

Special rechargeable Ni-Cd batteries:

P-3GAVA/2B (set of 2)

For details, check with your dealer.



- If rechargeable battery play time is short after recharging, the batteries have reached the end of their service life. Replace them with the recommended replacements.

- Play time may be shorter than usual after recharging batteries for the first time or after they have been unused for a long time. Repeatedly recharge and discharge the batteries if this occurs to restore them to normal.

Care

To prevent battery damage, electrolyte leakage and short-circuiting, heed the following points.

- Do not peel off the covering on batteries and do not use if the covering has been peeled off.
- Align the poles ⊕ and ⊖ correctly when inserting the batteries.
- Do not mix different types or makes of batteries or old and new batteries.
- Remove the batteries if you do not intend to use the unit for a long time.
- Do not throw into fire, short-circuit, disassemble, or subject to excessive heat.
- Do not attempt to recharge dry cell batteries.
- Do not allow metal objects to touch the battery terminals as this may cause short-circuiting which is dangerous.
- When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together with them. Contact with metal may cause short-circuiting which can cause a fire. For safety, carry the batteries in the battery carrying case.

When driving a car

In the interest of traffic safety, do not operate the unit while driving.

Speakers

- Do not allow metal objects near the speakers.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- Do not keep this unit and magnetized cards (bank cards, commuter passes, etc.) close together.